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BY TO SENTING THE PATENT OF THE PATENT OF

FEE	TR	RAN	SMIT	TAL
	for	FY	2002	

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

	Complete if Known				
Application Number	08 797555 OCC, 1817CD				
Filing Date	January 24, 1997 😤				
First Named Inventor	Richard F. Hellbaum 🔍				
Examiner Name	Budd M.				
Group Art Unit	2834				
Attorney Docket No.	LAR-15348-2				

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION(continued)
Check Credit card Money Other None	3. ADDITIONAL FEES Large Entity Small Entity Fee Fee Fee Fee Code (\$) Code (\$)
Order Order	3. ADDITIONAL FEES Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Paigh
X Deposit Account:	Fee Fee Fee Fee Fee Description Fee Paigh
Deposit Account 14-0116	
Number Deposit	
Account NASA Name	127 50 227 25 Surcharge - late provisional filing fee or cover sheet
The Commissioner is authorized to: (check all that apply)	139 130 139 130 Non-English specification
Charge fee(s) indicated below Credit any overpayments	147 2 520 147 2 520 For filing a request the extende reexamination
X Charge any additional fee(s) during the pendency of this application	112 920* 112 920* Requesting probaction of SIR prior to
Charge fee(s) indicated below, except for the filing fee	Examiner/action
to the above-identified deposit account.	113 1,840* 113 1,840* Report the publication of the after Extends action
FEE CALCULATION	113 1,840* 113 1,840* Report the publication of Sex after Exchange action 115 110 215 55 Extension for reply within first north 116 400 216 200 Extension for reply within feed month 117 920 217 460 Extension for reply within feed month
1. BASIC FILING FEE Large Entity #Small Entity	116 400 216 200 Extension for eply withing economic with
Fee Fee Fee Fee Fee Description	117 920 217 460 Extension for reply within that month
Code (\$) Code (\$) ree Paid 101 740 201 370 Utility filing fee	118 1,440 218 720 Extension to Capity within Tourin Trionin
406 330 206 165 Design filing fee	128 1,960 228 980 Extension within fifth month
107 510 207 255 Plant filing fee	119 320 219 160 Notice of Appeal
108 740 208 370 Reissue filing fee	120 320 220 160 Filing a brief in support of an appeal
114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing
SUBTOTAL (1) (\$)	138 1,510 138 1,510 Petition to institute a public use proceeding
2. EXTRA CLAIM FEES FOR UTILITY AND REISSU	Dulling to province undertained
Fee from	(Militarianum fan Assaignum)
Total Claims	143 460 243 230 Design issue fee
Independent Claims X = X	144 620 244 310 Plant issue fee
Multiple Dependent	122 130 122 130 etilonatothe Commissioner
	123 50 123 50 Processing leading 37 CFR 1.17(q)
Large Entity Small Entity Fee Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt
Code (\$) Code (\$)	581 40 581 40 Recording and patent assignment per property (times number of properties)
103 18 203 9 Claims in excess of 20	NCFIOR -
102 84 202 42 Independent claims in excess of 3	146 740 PROGRAM CFR \$1.129(a))
104 280 204 140 Multiple dependent claim, if not paid	149 740 249 370 For each additional jevention to be
109 84 209 42 ** Reissue independent claims over original patent	146 740 PRO 370 Filing a submission after final rejection 149 740 249 370 For each additional juvenition to be examined (37 CFR 5-11.29(b))
110 18 210 9 ** Reissue claims in excess of 20	1/9 /40 2/9 3/0 Request for Continued Examination (NOC)
and over original patent	169 900 169 900 Request for expedited examination of a design application
SUBTOTAL (2) (\$)	Other fee (specify)
303131712 (2)	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) \$\ 920.00
**or number previously paid, if greater; For Reissues, see above	Treatment of the second of the

SUBMITTED BY				Complete (ii	applicable)
Name (PrintlType)	Robin W. Edwards	Registration No. (Attorney/Agent)	39,179	Telephone	864-3230
Signature	Robin W. Edwa	rds		Date	12/19/01

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NASA Case No. LAR 15348-2





IN THE UNITED STATES AND TRADEMARK OFFICE

In re Application of

Richard F. Hellbaum et al.

Serial No.: 49/797,553

Filed: January 24, 1997

: Examiner: Budd, M.

: Art Unit: 2834

THIN LAYER COMPOSITE UNIMORPH FERROELECTRIC DRIVER For:

AND SENSOR

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any other paper referred to as being attached or enclosed) is being deposited with the United States Postal Service of the date shown below with sufficient postage as first class mail in an envelope address to the: Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Date: 12/19/01

Robin W. Edward

RESPONSE

Assistant Commissioner for Patents Washington, DC 20231

APR 2 2 2002

Sir:

THE CHILLIAN Responsive to the Office Action mailed June 19, 2001, please consider the following remarks:

01/28/2002 DTESSEM1 00000302 140116 09797553

01 FC:117 920.00 CH

REMARKS

Claims 17-24 stand rejected under 35 U.S.C. 103 as unpatentable over Corwin in view of Haertling or vice versa.

(1) The Examiner argues that it would have been obvious to one of ordinary skill in the art that the prestress layer could be attached to either the concave or convex side of the piezoelectric element. More specifically, the Examiner asserts